## **CLAIMS**

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## 1. A compound of the general formula (1):

$$X \longrightarrow O \longrightarrow R_3 \longrightarrow R_4$$

$$Y \longrightarrow N \longrightarrow R_1 \longrightarrow R_2 \longrightarrow R_5$$

$$(1)$$

or the corresponding pyridine N-oxide, wherein

X and Y are independently halo,  $C_{1-4}$  alkyl, halo( $C_{1-4}$ )alkyl,  $C_{2-4}$  alkenyl, halo( $C_{2-4}$ )alkenyl,  $C_{2-4}$  alkynyl, halo( $C_{2-4}$ )alkynyl,  $C_{1-4}$  alkoxy, halo( $C_{1-4}$ )alkoxy, -S(O)<sub>n</sub>-( $C_{1-4}$ )alkyl where n is 0, 1 or 2 and the alkyl group is optionally substituted with fluoro, -OSO<sub>2</sub>( $C_{1-4}$ )alkyl where the alkyl group is optionally substituted with fluoro, cyano, nitro,  $C_{1-4}$  alkoxycarbonyl, -CONR'R", -COR', -NR'COR", -NR'CO<sub>2</sub>R" where R' and R" are independently H or  $C_{1-4}$  alkyl and R" is  $C_{1-4}$  alkyl, or optionally substituted phenyl, or Y is H;

R<sub>1</sub> is a straight-chain C<sub>1-4</sub> alkyl group;

R<sub>2</sub> is H, C<sub>1-4</sub> alkyl, C<sub>1-4</sub> alkoxymethyl or benzyloxymethyl in which the phenyl ring of the benzyl moiety is optionally substituted with C<sub>1-4</sub> alkoxy;
R<sub>3</sub> and R<sub>4</sub> are independently H, C<sub>1-3</sub> alkyl, C<sub>2-3</sub> alkenyl or C<sub>2-3</sub> alkynyl provided that both are not H and that when both are other than H their combined total of carbon atoms does not exceed 4, or

 $R_3$  and  $R_4$  join with the carbon atom to which they are attached to form a 3 or 4 membered carbocyclic ring optionally containing one O, S or N atom and optionally substituted with halo or  $C_{1-4}$  alkyl; and

 $R_5$  is H,  $C_{1-4}$  alkyl or  $C_{3-6}$  cycloalkyl in which the alkyl or cycloalkyl group is optionally substituted with halo, hydroxy,  $C_{1-6}$  alkoxy, cyano,  $C_{1-4}$  alkylcarbonyloxy, aminocarbonyloxy, mono- or di( $C_{1-4}$ )alkylaminocarbonyloxy, -S(O)<sub>n</sub>( $C_{1-6}$ )-alkyl where n is 0, 1 or 2, triazolyl, tri( $C_{1-4}$ )alkylsilyloxy, optionally substituted phenoxy, optionally substituted thienyloxy, optionally substituted benzyloxy or optionally substituted thienylmethoxy, or

R<sub>5</sub> is optionally substituted phenyl, optionally substituted thienyl or optionally

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substituted benzyl, in which the optionally substituted phenyl and thienyl rings of the X, Y and R<sub>5</sub> values are optionally substituted with one, two or three substituents selected from halo, hydroxy, mercapto, C<sub>1-4</sub> alkyl, C<sub>2-4</sub> alkenyl, C<sub>2-4</sub> alkynyl, C<sub>1-4</sub> alkoxy, C<sub>2-4</sub> alkenyloxy, C<sub>2-4</sub> alkynyloxy, halo(C<sub>1-4</sub>)alkyl, halo(C<sub>1-4</sub>)-alkoxy, C<sub>1-4</sub> alkylthio, halo(C<sub>1-4</sub>)alkylthio, hydroxy(C<sub>1-4</sub>)alkyl, C<sub>1-4</sub>alkoxy(C<sub>1-4</sub>)-alkyl, C<sub>3-6</sub> cycloalkyl, C<sub>3-6</sub> cycloalkyl(C<sub>1-4</sub>)alkyl, phenoxy, benzyloxy, benzoyloxy, cyano, isocyano, thiocyanato, isothiocyanato, nitro, -NR<sup>m</sup>R<sup>n</sup>, -NHCOR<sup>m</sup>, -NHCONR<sup>m</sup>R<sup>n</sup>, -CONR<sup>m</sup>R<sup>n</sup>, -SO<sub>2</sub>R<sup>m</sup>, -OSO<sub>2</sub>R<sup>m</sup>, -COR<sup>m</sup>, -CR<sup>m</sup>=NR<sup>n</sup> or -N=CR<sup>m</sup>R<sup>n</sup>, in which R<sup>m</sup> and R<sup>n</sup> are independently hydrogen, C<sub>1-4</sub> alkyl, halo-(C<sub>1-4</sub>)alkyl, C<sub>1-4</sub> alkoxy, halo(C<sub>1-4</sub>)alkoxy, C<sub>1-4</sub> alkylthio, C<sub>3-6</sub> cycloalkyl, C<sub>3-6</sub> cycloalkyl(C<sub>1-4</sub>)alkyl, phenyl or benzyl, the phenyl and benzyl groups being optionally substituted with halogen, C<sub>1-4</sub> alkyl or C<sub>1-4</sub> alkoxy.

- 2. A compound according to claim 1 wherein X is chloro or bromo, and Y is H.
- 3. A compound according to claim 1 or 2 wherein  $R_1$  is methyl, ethyl, n-propyl or n-butyl.
- 4. A compound according to any one of the preceding claims wherein R<sub>1</sub> is methyl or ethyl.
  - 5. A compound according to any one of the preceding claims wherein R<sub>2</sub> is H.
- 6. A compound according to any one of the preceding claims wherein both  $R_3$  and  $R_4$  are methyl.
  - 7. A compound according to any one of the preceding claims wherein R<sub>5</sub> is H, methyl, hydroxymethyl, methoxymethyl, 1-methoxyethyl, tert-butyldimethylsilyloxymethyl, 3-cyanopropyl, 3-(1,2,4-triazol-1-yl)propyl, 3-methylthiopropyl, 3-methanesulphinylpropyl or 3-methanesulphonylpropyl.

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 $C_{1-4}$  alkyl or  $C_{1-4}$  alkoxy.

- 8. A compound according to claim 1 wherein X and Y are independently halo, C<sub>1-4</sub> alkyl, C<sub>2-4</sub> alkenyl, C<sub>2-4</sub> alkynyl, optionally substituted phenyl, cyano, or -COR' where R' is H or C<sub>1-4</sub> alkyl, or Y is H;

  R<sub>1</sub> is a straight-chain C<sub>1-4</sub> alkyl group;
- R<sub>2</sub> is H, C<sub>1-4</sub> alkyl, C<sub>1-4</sub> alkoxymethyl or benzyloxymethyl in which the phenyl ring of the benzyl moiety is optionally substituted with C<sub>1-4</sub> alkoxy;

  R<sub>3</sub> and R<sub>4</sub> are independently H, C<sub>1-3</sub> alkyl, C<sub>2-3</sub> alkenyl or C<sub>2-3</sub> alkynyl provided that both are not H and that when both are other than H their combined total of carbon atoms does not exceed 4, or
- 10 R<sub>3</sub> and R<sub>4</sub> join with the carbon atom to which they are attached to form a 3 or 4 membered carbocyclic ring optionally containing one O, S or N atom and optionally substituted with halo or C<sub>1-4</sub> alkyl; and R<sub>5</sub> is H, C<sub>1-4</sub> alkyl or C<sub>3-6</sub> cycloalkyl in which the alkyl or cycloalkyl group is optionally substituted with halo, hydroxy, C<sub>1-6</sub> alkoxy, C<sub>1-6</sub> alkylthio, cyano, C<sub>1-4</sub> alkylcarbonyloxy, aminocarbonyloxy or mono- or di(C<sub>1-4</sub>)alkylaminocarbonyloxy, tri(C<sub>1-4</sub>)alkylsilyloxy, optionally substituted phenoxy, optionally substituted thienyloxy, optionally substituted benzyloxy or optionally substituted thienylmethoxy, or

R<sub>5</sub> is optionally substituted phenyl, optionally substituted thienyl or optionally substituted benzyl;

in which the optionally substituted phenyl and thienyl rings of the X, Y and R<sub>5</sub> values are optionally substituted with one, two or three substituents selected from halo, hydroxy, mercapto, C<sub>1-4</sub> alkyl, C<sub>2-4</sub> alkenyl, C<sub>2-4</sub> alkynyl, C<sub>1-4</sub> alkoxy, C<sub>2-4</sub> alkenyloxy, C<sub>2-4</sub> alkynyloxy, halo(C<sub>1-4</sub>)alkyl, halo(C<sub>1-4</sub>)alkoxy, C<sub>1-4</sub> alkylthio, halo(C<sub>1-4</sub>)alkylthio, hydroxy(C<sub>1-4</sub>)alkyl, C<sub>1-4</sub>alkoxy(C<sub>1-4</sub>)alkyl, C<sub>3-6</sub> cycloalkyl, C<sub>3-6</sub> cycloalkyl, C<sub>3-6</sub> cycloalkyl(C<sub>1-4</sub>)alkyl, phenoxy, benzyloxy, benzoyloxy, cyano, isocyano, thiocyanato, isothiocyanato, nitro, -NR<sup>m</sup>R<sup>n</sup>, -NHCOR<sup>m</sup>, -NHCONR<sup>m</sup>R<sup>n</sup>, -CONR<sup>m</sup>R<sup>n</sup>, -SO2R<sup>m</sup>, -OSO2R<sup>m</sup>, -COR<sup>m</sup>, -CR<sup>m</sup>=NR<sup>n</sup> or -N=CR<sup>m</sup>R<sup>n</sup>, in which R<sup>m</sup> and R<sup>n</sup> are independently hydrogen, C<sub>1-4</sub> alkyl, halo(C<sub>1-4</sub>)alkyl, C<sub>1-4</sub> alkoxy, halo-(C<sub>1-4</sub>)alkoxy, C<sub>1-4</sub> alkylthio, C<sub>3-6</sub> cycloalkyl, C<sub>3-6</sub> cycloalkyl(C<sub>1-4</sub>)alkyl, phenyl or benzyl, the phenyl and benzyl groups being optionally substituted with halogen,

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- 9. A compound according to claim 1 wherein X is chloro or bromo and Y is H; R<sub>1</sub> methyl, ethyl, n-propyl, n-butyl; R<sub>2</sub> is H; R<sub>3</sub> and R<sub>4</sub> are both methyl; and R<sub>5</sub> is H, methyl, hydroxymethyl, methoxymethyl, 1-methoxyethyl, tert-butyldimethyl-silyloxymethyl, 3-methylthiopropyl, 3-methanesulphinylpropyl or 3-methanesulphonylpropyl.
- 10. A process for preparing a compound according to claim 1 as herein described.
- 11. A fungicidal composition comprising a fungicidally effective amount of a compound of formula (1) as defined in claim 1 and a suitable carrier or diluent therefor.
- 12. A method of combating or controlling phytopathogenic fungi which comprises applying a fungicidally effective amount of a compound of formula (1) as defined in claim 1 or a composition according to claim 11 to a plant, to a seed of a plant, to the locus of the plant or seed or to soil or any other plant growth medium.